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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/661,579	09/15/2003	Shinji Nakagawa	056207.51363C1 8060	
23911 7590 08/24/2007 CROWELL & MORING LLP INTELLECTUAL PROPERTY GROUP			EXAMINER	
			TRAN, DIEM T	
P.O. BOX 1430 WASHINGTO	00 N, DC 20044-4300		ART UNIT	PAPER NUMBER
	,		3748	
			MAIL DATE	DELIVERY MODE
		•	08/24/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/661,579	NAKAGAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Diem Tran	3748				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
 1) ⊠ Responsive to communication(s) filed on 04 June 2007. 2a) ⊠ This action is FINAL. 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 						
Disposition of Claims						
 4) Claim(s) 9-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 9-12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

DETAILED ACTION

This office action is in response to the amendment filed on 6/4/07. In this amendment, claim 9 has been amended. Overall, claims 9-12 are pending in this application.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 9-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Mori et al. (US Patent 6,334,306).

Regarding claim 9, Mori discloses a control unit for an internal combustion engine including the three way catalyst (42) and HC adsorbent (43) operatively arranged in order on an exhaust side of the engine (see Figure 1), said control unit being configured to optimize control of a temperature rise characteristic of said HC adsorbent by appropriate control of rich/lean exhaust for adjusting a temperature of said HC adsorbent (see col. 7, lines 7+, col. 8, lines 1+).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mori et al. (US Patent 6,334,306).

Regarding claim 10, Mori discloses all the claimed limitations as discussed in claims 9, 10 above, however, fails to disclose detecting a temperature of said HC adsorbent by using a sensor. Since the Mori discloses that a HC adsorber temperature is constantly determined through out a heating process, it would have been obvious for one n that a detecting means such as a temperature sensor is used in Mori to determine a HC adsorber temperature.

Claims 11, 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mori et al. (US Patent 6,334,306) in view of Yamashita (US Patent 6,311,482).

Regarding claims 11, 12, Mori discloses all the claimed limitations as discussed in claims 9, 10 above, however, fails to disclose alternately controlling the air fuel ratio between a rich and lean state based on a catalyst temperature when the temperature of said catalyst is within the predetermined fixed range. Yamashita teaches alternately controlling the air fuel ratio between a rich and lean state based on a catalyst temperature when the temperature of said catalyst is within the predetermined fixed range (see col. 12, lines 7-11).

It would have been obvious for one having ordinary skill in the art, to have utilized the teaching of Yamashita in the Mori device since the use thereof would have been conventional in the art to raise a temperature of an emission control device.

Response to Arguments

Applicant's arguments filed on 6/4/07 have been fully considered but they are moot in

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view of a new ground(s) of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Conclusion

Any inquiry concerning this communication from the examiner should be directed to Examiner Diem Tran whose telephone number is (571) 272-4866. The examiner can normally be reached on Monday -Friday from 8:30 a.m.- 5:00p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion, can be reached on (571) 272-4859. The fax number for this group is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published

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unpublished applications is available through Private PAIR only. For more information about

applications may be obtained from either Private PAIR or Public PAIR. Status information for

the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the

Private PAIR system, contact the Electronic Business Center (EBC) at 800-786-9199 (toll-

free).

Diem Tran

Patent Examiner

DT

THOMAS DENION SUPERVISORY PATENT EXAMINER

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